**Blue Waters Petascale Semester Curriculum v1.0**

**Unit 4: OpenMP**

**Lesson 12: OpenMP Tasks**

**Instructor Guide**

*Developed by Cameron Foss for the Shodor Education Foundation, Inc.*



*Except where otherwise noted, this work by The Shodor Education Foundation, Inc. is licensed under CC BY-SA 4.0. To view a copy of this license, visit*[*https://creativecommons.org/licenses/by-sa/4.0*](https://creativecommons.org/licenses/by-sa/4.0)

*Browse and search the full curriculum at*[*http://shodor.org/petascale/materials/semester-curriculum*](http://shodor.org/petascale/materials/semester-curriculum)

*We welcome your improvements! You can submit your proposed changes to this material and the rest of the curriculum in our GitHub repository at*[*https://github.com/shodor-education/petascale-semester-curriculum*](https://github.com/shodor-education/petascale-semester-curriculum)

*We want to hear from you! Please let us know your experiences using this material by sending email to* [*petascale@shodor.org*](mailto:petascale@shodor.org)

1. Go over slides introducing OpenMP tasks.

Lecture breakdown:

3-5 min introduction

10 mins on race-car example

10 mins recursion and serial example of recursion

1-2 assignment announcement

1. Assign the task of parallelizing the recursive example using openMP tasks.

**Common Pitfalls for Students**

* Recursion can be a confusing topic. Some students might struggle with it.